

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application No. 10/508,978

Confirmation No. 4494

Applicant: Hwu et al.

Filed: November 19, 2004

TC/AU: 1643

Examiner: Bradley Duffy

Docket No.: 230591 (Client Reference No. E-137-2002/0-US-03)

Customer No.: 45733

Commissioner for Patents
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DECLARATION UNDER 37 C.F.R. § 1.132 OF DR. WARREN LEONARD

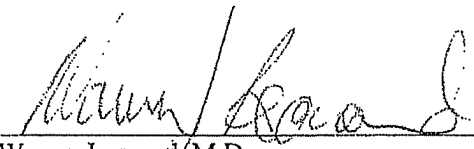
1. I, Warren Leonard, am a co-inventor of the subject matter disclosed and claimed in the above-identified patent application.
2. Currently, I am Chief of the Lab of Molecular Immunology of the National Heart, Lung, and Blood Institute of the National Institutes of Health. I received my Medical Degree from Stanford University in 1977 and have authored over 200 scientific articles during my career.
3. I believe that, in general, data obtained from mouse models are useful for predicting the biological activity of a molecule in a human context. Indeed, that is why the scientific community has spent tremendous effort creating and analyzing knockout and transgenic mouse models. Accordingly, based on the mouse model data provided in the above-referenced application, I believe that a polynucleotide encoding human IL-21 would

likely induce apoptosis in human cells analogous to its behavior in the mouse.

4. I hereby declare that all statements made herein of my own knowledge are true, that all statements made on information and belief are believed to be true, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date:

8/7/07


Warren Leonard, M.D.